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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/834,941	04/16/2001	Yoshihito Asao	Q63931	6657	
75	90 06/25/2002				
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER		
			TAMAI, KARL I		
WASHINGTON	N, DC 20037-3213		ART UNIT	PAPER NUMBER	
			2834		
			DATE MAIL ED: 06/25/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>	- is	Application N	o.	Applicant(s)				
Office Action Summary		09/834,941		ASAO ET AL.	,			
		Examiner		Art Unit	-ke			
		Tamai IE Karl		2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on 17		.					
. 2a)⊠	, ,—	his action is non						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>4</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
	6)⊠ Claim(s) <u>4</u> is/are rejected.							
·	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement. Application Papers								
	he specification is objected to by the Examina	er						
	The drawing(s) filed on is/are: a) ☐ acce		cted to by the Exar	niner				
,	Applicant may not request that any objection to the							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)∑	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents have been received.							
:	2. Certified copies of the priority documents have been received in Application No. 09/313,640							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [5) [6) [(PTO-413) Paper No(s) atent Application (PTO-				

Application/Control Number: 09/834,941

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DETAILED ACTION

Specification

1. The new title "Stator of AC Generator for Use in a Vehicle With Radially Aligned, Rectilinear Polymorphic Cross-Section Conductor Wires" has been entered into the file wrapper. The requirement of a new title is withdrawn.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kurihashi et al.(Kurihashi)(JP 63-194,543) and Schorm et al.(Schorm)(US 5,341,561). Kurihashi teaches a cylindrical stator core 6 with teeth 7 and slots, a rectilinear (polymorphic) coil slots with a radial longitudinal orientation. Kurihashi teaches the coils taking up 80% of the slot space. Kurihashi teaches every aspect of the invention except the rectilinear coils aligned radially. Schorm teaches the equivalence of the wires aligned radially(figures 8 and 9) and circumferencially(figures 1-7). It would have been obvious to a person of ordinary skill in the art at the time of the invention that the coils of Kurihashi could be aligned radially instead of circumferentially because Schorm teaches the equivalence of the longitudinal axis being radial or circumferential, where it is within the ordinary skill in the art to choose between known equivalents, and because Schorm teaches the rectilinear windings can be bundled for assembly into the stator core.

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Response to Arguments

4. Applicant's arguments filed 4/17/02 have been fully considered but they are not persuasive. The Applicant's argument that Schorm does not teach the longitudinal axis of the windings being radial for radial rigidity is not persuasive. The fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). Schorm teaches the windings can be wound with the longitudinal axis of the windings being radial (figure 7) or circumferential (figure 8). It is within the ordinary skill in the art to choose between know equivalents. The radial stiffness observed by the applicant is merely an incidential benefit shown in the known winding structure, as shown by Schorm.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (703) 305-7066.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Nestor Ramirez, can be reached at (703) 308-1371. The facsimile number for the Group is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Karl I Tamai

Karl I Tamai PRIMARY PATENT EXAMINER June 24, 2002

PRIMARY EXAMINER